

# Problem Solving

REAL WORLD

SHOW YOUR WORK

7. Emily has a road map with a key that shows an inch on the map equals 5 miles of actual distance. If a distance measured on the map is 12 inches, what is the actual distance? Write the rule you used to find the actual distance.

---



---

8. To make a shade of lavender paint, Jon mixes 4 ounces of red tint and 28 ounces of blue tint into one gallon of white paint. If 20 gallons of white paint and 80 ounces of red tint are used, how much blue tint should be added? Write a rule that you can use to find the amount of blue tint needed.

---



---



---

9. **HOT** In the cafeteria, tables are arranged in groups of 4, with each table seating 8 students. How many students can sit at 10 groups of tables? Write the rule you used to find the number of students.

---



---

10. What is the unknown number in Sequence 2 in the chart? What rule could you write that relates Sequence 1 to Sequence 2?

Sequence Number	1	2	3	5	7
Sequence 1	5	10	15	25	35
Sequence 2	15	30	45	75	?

- (A) 70; Multiply by 2.  
 (B) 100; Add 25.  
 (C) 105; Multiply by 3.  
 (D) 150; Add 150.